- b. storing a copy of the joining management record pointer instances for each child display pane.
- 23. The method of claim 1, further comprising the steps of:
  - a. accepting user revisions to the data displayed;
  - b. determining whether the revision is a data revision;
  - c. updating the management record instances if the revision is a data revision;
  - d. determining whether the revision affects a function;
  - e. maintaining and executing the affected functions if the revision affects a function;
  - f. determining whether the revision affects a filter;
  - g. maintaining and executing the affected filters if the revision affects a filter, each filter execution corresponding to a data selection according to a set of data selection criteria;
  - h. determining whether the revision is a sort revision; and
  - i. maintaining and executing the affected sort if the revision is a sort revision,
- 24. The method of claim 23, wherein the step of maintaining and executing the affected functions if the revision affects a function comprises the steps of:
  - a. retrieving user changes to the function;
  - b. replacing calculated fields used in the function with their function;
  - c. updating primary record types used to point to the changed function;
  - d. updating the management record to point to the changed function;
  - e. reading the management record instance; and
  - f. executing the changed function.
- 25. The method of claim 23, wherein the step of maintaining and executing the affected functions if

the revision affects a function comprises the steps of:

- a. retrieving user changes to the function;
- b. replacing calculated fields used in the function with their function;
- c. updating primary record types used to point to the changed function;
- d. updating the dynamic document to point to the changed function;
- e. reading the dynamic document; and
- f. executing the changed function.
- 26. The method of claim 23, wherein the step of maintaining and executing the affected filters if the revision affects a filter comprises the steps of:
  - a. retrieving user changes to the filter;
  - b. updating the management record type definition to point to the changed filter;
  - c. reading the management record instance for the filter's management record pointer family; and
  - d. executing the filter.
- 27. The method of claim 23, wherein the step of maintaining and executing the affected filters if the revision affects a filter comprises the steps of:
  - a. retrieving user changes to the filter;
  - updating the dynamic document display pane definition to point to the changed filter, the display pane definition defining a display window;
  - c. reading a display pane row for a display pane associated with the filter; and
  - d. executing the filter.
- 28. The method of claim 23, wherein the display is updated after the step of maintaining and executing the affected sort if the revision is a sort revision.

- 29. The method of claim 23 wherein the step of updating the management record instances if the revision is a data revision, comprises the steps of:
  - a. determining whether a record has been changed;
  - b. updating the management record instances for a changed primary record instance if a record has been changed;
  - c. determining whether an record has been added;
  - d. updating the management record instances for a new primary record instance if a record has been added;
  - e. executing the management record filters;
  - f. executing the management record functions;
  - g. updating the dynamic documents; and
  - h. re-displaying the dynamic documents to show the data revision.
- 30. The method of claim 29, wherein the substep of updating the management record pointer instances for a changed primary record instance comprises the steps of:
  - a. determining whether field values for a set of related fields are equal; and
  - b. removing a pointer within the management record pointer instance.
- 31. The method of claim 29, wherein the substep of updating the management record pointer instances for a new primary record instance comprises the steps of:
  - a. retrieving the new primary record instance;
  - determining where the new primary record instance is used by reading the primary record type definition and the management record type definition corresponding to the primary record instance;
  - c. determining whether the primary record type is a lead primary record of a management record pointer family;